



Presentation to the AETD Safety Council

GSFC RECERTIFICATION PROGRAM ROLES & RESPONSIBILITIES

Stanley Chan/540 RECERT Manager (301) 286-4209

5/16/2006



OVERVIEW GSFC RECERTIFICATION PROGRAM (RECERT)



- > A Center-wide safety program Greenbelt, Wallops, off-sites
- > Requirements mandated by OSHA, NASA, and GSFC
- Center policy requires LDE and PV/S to be certified by the RECERT Manager prior to operations
- Provides scheduled test, inspection, certification, recertification for:
 - Lifting Devices and Equipment (LDE) GPR 8719.1
 - ✓ Bridge cranes, gantries, hoists, mobile cranes
 - √ Hydra-sets, slings, sling assemblies, and hardware components
 - ✓ Mobile Aerial Platforms, Powered Industrial Trucks, and critical Jacks
 - Ground-based Pressure Vessels and Pressurized Systems (PV/S) GPR 8710.3:
 - ✓ Cryogenic, compressed gases (including air), hydraulic, lube oil, aviation fuel, vacuum, and R&D systems; purge carts
 - √ Vessels, reliefs, gages, piping, flex hoses



OVERVIEW GSFC RECERTIFICATION PROGRAM (RECERT) (Cont'd)



- Provides training, certification, and recertification of LDE Operators and Critical Lift Coordinators
- > Reviews and processes Variance Requests
- Provides LDE and PV/S consultation for upgrades, design review, and approval to assure Code compliance and ability to certify



LDE RECERT MANAGER'S RESPONSIBILITES EXCERPT FROM GPR 8719.1



- > RECERT Manager's responsibilities include:
 - Implements and enforces RECERT requirements
 - Provides test, inspection, certification, and recertification of LDE
 - Certify LDE including MAP & PIT operators; and Critical Lift Coordinators
 - Reviews and approves MAP and PIT training programs given by others
 - Maintains a system for periodic inspection of LDE, review Logbooks, identifying deficiencies, and completion of corrective actions
 - Provides qualified and certified inspectors to perform test and inspections (T&I) meeting codes and standards
 - Provides consultation on LDE design, specification, and modification
 - Maintains a configuration management and certification status system
 - Performs compliance spot checks on LDE operations



LDE OWNER'S RESPONSIBILITES EXCERPT FROM GPR 8719.1



- > LDE Owner's responsibilities include:
 - Ensures LDE are certified before use
 - Ensures LDE (including PIT & MAP) operators are certified and licensed
 - ✓ obtain crane operator training through RECERT
 - √ obtain MAP & PIT operator training from others
 - Determines the LDE usage
 - ✓ Classification (Critical or Noncritical)
 - √ Category (Active, Standby, Idle)
 - Controls uncertified/expired LDE to preclude inadvertent use
 - Notifies RECERT/540 of all LDE deficiencies and incidents, and initiates appropriate Incident/Mishap Report per GPR 8621.1A
 - Initiates repair for LDE deficiencies found during test and inspections
 - Requests a RECERT LDE compliance review prior to any new procurement or proposed upgrades or modifications
 - Performs OEM recommended maintenance on MAP and PIT
 - ✓ Initiate and fund major repairs on cranes



SAMPLE LDE RECERT TAGS





All Lifting Devices: Cranes, Mobile Cranes, Hoists, MAP, PIT, Hydra-Sets, Lift Gates, Etc.



All Lifting
Equipment/
Hardware:
Slings
Shackles
Hoist Rings
Turnbuckles
Etc.



SAMPLE LDE OPERATOR LICENSES







SAMPLE MAP & PIT OPERATOR LICENSES







PV/S RECERT MANAGER'S RESPONSIBILITES EXCERPT FROM GPR 8710.3



- > RECERT Manager's responsibilities include:
 - Implements and enforces RECERT requirements
 - Certifies PV/S for operation
 - Provides test, inspection, certification, and recertification of ground-based PV/S
 - Maintains a system for periodic in-service inspection (ISI), including identifying deficiencies, and completion of corrective actions
 - Provides qualified and certified inspectors to perform required T&I meeting codes and standards
 - Reviews and processes Variance Requests
 - Provides consultation on PV/S compliance for design, specification, and modification
 - Maintains a configuration management and certification status system
 - Performs compliance spot checks on PV/S



PV/S OWNER'S RESPONSIBILITES EXCERPT FROM GPR 8710.3



> PV/S Owner's responsibilities include:

- Ensures PV/S are designed, fabricated, installed, and tested per Code requirements (ASME B31.3 – Process Piping)
- Submits required engineering drawings and documentation to RECERT / 540 for equipment certification
- Ensures new, modified, repaired, relocated, or transferred
 PV/S are certified and tagged by RECERT prior to operation
 - √ If not certified, submit a RECERT Work Request for compliance review
- Submits proposed modification and upgrades to RECERT / 540 (minimum 2 weeks, longer if a complex system) for compliance review prior to implementation



PV/S OWNER'S RESPONSIBILITES EXCERPT FROM GPR 8710.3 (Cont'd)



- > PV/S Owner's responsibilities include (Cont'd):
 - Positively controls uncertified/expired PV/S to preclude inadvertent use
 - ✓ Segregates uncertified/expired items from certified items
 - ✓ Either tags each item "Do Not Use Until Certified", or locks them up in storage cabinets labeled "Certify Before Use" or similar wording
 - √ Generic "Out of Cert" or Red Tags may be obtained from RECERT/540 as needed.
 - Ensures OEM recommended maintenance on PV/S is performed
 - Allows necessary down time of PV/S for RECERT to perform T&I to maintain system certification
 - Notifies RECERT/540 of all PV/S Close Calls and Mishaps, report per GPR 8621.1A
 - Initiates repair of PV/S deficiencies per RECERT T&I report, and notifies RECERT / 540 upon completion so that a reinspection can be scheduled
 - Ensures pressure system operators are trained and qualified, with documentation, to operate the equipment



REQUIRED PV/S DOCUMENTATION FOR SYSTEM CERTIFICATION



- Before RECERT can certify a system, the following information from the owner is required:
 - A. Building #, Room #, and/or location
 - B. Manufacturing Data Reports (MDR) MDR Form U-1A, as applicable (should have been supplied or can be obtained from the vendor)
 - C. Piping info, as applicable
 - 1. Design and operating conditions
 - 2. Material Specification (ASTM or ASME)
 - 3. Pipe/tubing Size
 - 4. Pipe/tubing Wall thickness
 - 5. Pipe/tube fitting type and class (socket weld, butt weld, threaded, mechanical (swage)
 - 6. Valve type, manufacturer, model number, material of construction (body, stem, seat(s), pressure and temperature rating
 - 7. Overpressure protection: Manufacturer, model number, type, size, capacity, set point, seat material
 - 8. Pressure Regulators: Manufacturer, model number, type (single stage, dual stage), material, size, max inlet pressure, max outlet pressure
 - 9. Pressure gages: Manufacturer, model number, inlet size, range
 - 10. As-built piping and instrumentation diagram
 - 11. Certificate of Compliance from fabricator and/or installer that the System meets the Code fabrication and installation requirements
 - 12. Record of Code-required NDT
 - 13. Record of Code-required pressure test
- For non-compliant systems, the owner must prepare a Variance Request including a risk analysis, risk acceptance, processed and approved in accordance with NASA and GSFC requirements



SAMPLE PV/S RECERT TAGS









SAMPLE PV/S RECERT TAGS









RECERT SUPPORT: (301) 286-5181



GODDARD SPACE FLIGHT CENTER

RECERTIFICATION PROGRAM

RELIEF VALVE INSPECTION TAG

INSPECTION DATE: XXXXXX

EXPIRATION DATE: XXXXX

REPORT # XXXXXXXXXX INSPECTOR: XXXXXXXX

RECERT SUPPORT: (301) 285-5181

CERTIFIED

I.D. # SAMPLE

SET PRESSURE:



GSFC RECERTIFICATION PROGRAM



- > Safety is everyone's responsibility
- Program success can only be achieved with everyone's full participation and cooperation
- > For RECERT assistance on PV/S and LDE, please contact:
 - At Greenbelt
 - ✓ Stanley Chan / RECERT Manager, Code 540, x6-4209
 - ✓ Warren Thomas / ManTech RECERT Function Manager, Code 540.5, x6-5183
 - ✓ Stratton Karahalias / ManTech RECERT Supervisor, Code 540.5, x6-1179
 - At Wallops
 - ✓ Prasad Hanagud / Deputy RECERT Manager/WFF, Code 500.W, x1359
 - ✓ Bill Hargrove / ManTech RECERT Supervisor, Code 540.5, x1797